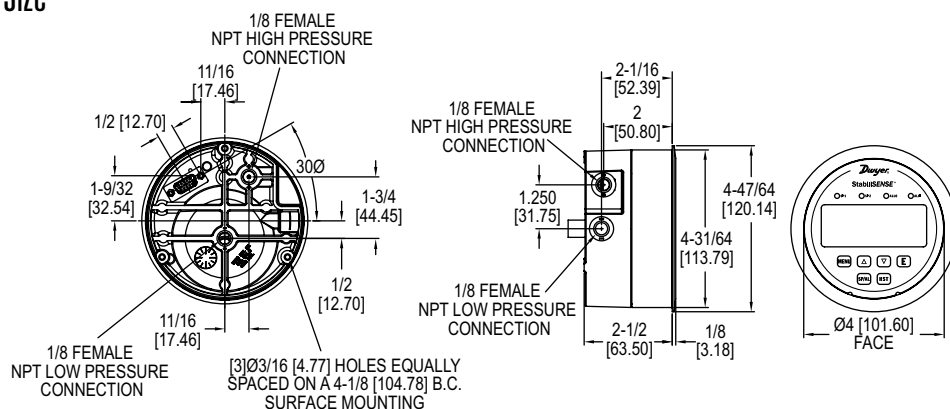**Dwyer**

SERIES RPMC

STABILI*SENSE*™ CRITICAL ROOM PRESSURE MONITOR
Room Status Indication, Magnehelic® Gage Size

The **Series RPMC Stabili*SENSE*™ Critical Room Pressure Monitor** is designed for critical low differential pressure applications that require stringent pressure monitoring and alarming. The Series RPMC can be configured to monitor positive or negative pressure in protected environments and clean manufacturing areas. The RPMC is a complete system which enables access to pressure, security, calibration, and alarm setup. The RPMC Stabili*SENSE*™ critical room pressure monitor has a brushed stainless steel bezel that allows for easy cleaning.

The RPMC Stabili*SENSE*™ critical room pressure monitor has built-in status indication LEDs that will appear green when within the user-defined pressure set range and will appear orange when outside of the pressure set range. 2 SPDT independent control relays with adjustable deadbands are also provided along with a 4-20 mA process output.

FEATURES/BENEFITS
• Long term stable pressure measurements
• 2 SPDT relays allow for local alarming and alarming to control system
• Automatic or manual alarm reset
• Visual LED alarms provide immediate local alert allowing corrective action to be taken quicker to eliminate the problem from becoming widespread
• Stores peak and valley process readings
• Same installation diameter as Magnehelic® gage which simplifies field upgrade to RPMC Stabili*SENSE*™ critical room pressure monitor
• Password protected setup menu ensures no errors by untrained personnel

APPLICATIONS
• Clean manufacturing areas
• Semiconductor manufacturing
• Pharmaceutical
• Clean rooms
• Research labs
• Vivariums

SPECIFICATIONS
Service: Air and non-combustible, compatible gases.
Measurement Technology: Capacitance cell.
Wetted Materials: Consult factory.
Housing Material: Die cast aluminum case and SS bezel.
Accuracy: ±0.25% RSS (includes non-linearity: ±0.24%, hysteresis: ±0.05% and non-repeatability: ±0.05%), or ±0.5% RSS (includes non-linearity: ±0.49%, hysteresis: ±0.05% and non-repeatability: ±0.05%).
Pressure Limits: 2 psig.
Temperature Limits: 32 to 140°F (0 to 60°C).
Compensated Temperature Limits: 32 to 140°F (0 to 60°C).
Thermal Effects: 0.030%/°F (0.050/°C) from 77°F (25°C).
Power Requirements: 12-28 VDC, 12-28 VAC 50 to 400 Hz.
Power Consumption: 3 VA max.
Output Signal: 4-20 mA DC into 900 Ω max.
Zero and Span Adjustments: Accessible via menus.
Display: Backlit 4 digit LCD 0.4″ height LED indicators for set point and alarm status.
Electrical Connections: 15 pin male high density D-sub connection. 18″ (46 cm) cable with 10 conductors included.
Process Connections: 1/8″ female NPT. Side or back connections.
Mounting Orientation: Mount unit in vertical plane. Size: 4-3/4″ (120.7 mm) OD x 2-21/32 (67.5 mm).
Weight: 1.90 lb (862 g).

SWITCH SPECIFICATIONS
Switch Type: 2 SPDT relays.
Electrical Rating: 1 A @ 30 VAC/VDC.
Set Point Adjustment: Adjustable via keypad on face.

MODEL CHART

Model	Description
RPMC-A-002	Stabili*SENSE*™ critical room pressure monitor, 0.25% accuracy, 0-0.25 in w.c. range
RPMC-A-003	Stabili*SENSE*™ critical room pressure monitor, 0.25% accuracy, 0-0.5 in w.c. range
RPMC-A-013	Stabili*SENSE*™ critical room pressure monitor, 0.25% accuracy, -0.25-0-0.25 in w.c. range
RPMC-A-014	Stabili*SENSE*™ critical room pressure monitor, 0.25% accuracy, -0.5 0-0.5 in w.c. range
RPMC-B-002	Stabili*SENSE*™ critical room pressure monitor, 0.5% accuracy, 0-0.25 in w.c. range
RPMC-B-003	Stabili*SENSE*™ critical room pressure monitor, 0.5% accuracy, 0-0.5 in w.c. range
RPMC-B-013	Stabili*SENSE*™ critical room pressure monitor, 0.5% accuracy, -0.25-0-0.25 in w.c. range
RPMC-B-014	Stabili*SENSE*™ critical room pressure monitor, 0.5% accuracy, -0.5 0-0.5 in w.c. range

OPTIONS

Model	Description
NIST	NIST traceable calibration certificate
FC	Factory calibration certificate

ACCESSORIES

Model	Description
A-285	Remote alarm annunciator with visible/audible alarm and acknowledge switch
A-299	Mounting bracket flush mount Magnehelic® gage in bracket. Bracket is then surface mounted. Steel with gray hammertone epoxy finish. 6.3″ x 7.7″ x 4.0″, 1.30 lb.
A-300	Flat aluminum bracket for flush mounting
A-417A	Static pressure pickup. For use in clean rooms, 60 micron filter picks up static pressure. SS wall plate fits 2″ x 4″ electrical box. Sealed with foam gasket, screws included. Barbed brass fitting holds 1/8″ to 3/16″ ID tubing Flush mount space pressure sensor, white plastic
A-465	Static pressure pickup. Room mount with delta style plastic enclosure fits 2″ x 4″ electrical box. Fine mesh screen hides static pressure pickup port. Clean connection to 1/8″ to 3/16″ I.D. tubing and pressure sensor. Sealed with foam gasket, screws included
A-418A	
A-220	Clear flexible vinyl tubing is easily inspected, and is therefore best for test applications where a possibility of fluid entering the tubing exists. 3/16″ ID x 5/16″ OD, lengths to 500´; 45 psi maximum pressure @ 73°F